

Title (en)
MULTI-FRAME DEPTH-BASED MULTI-CAMERA RELIGHTING OF IMAGES

Title (de)
TIEFENBASIERTE MULTI-FRAME-MULTI-KAMERA-NEUBELEUCHTUNG VON BILDERN

Title (fr)
RALLUMAGE D'IMAGES À MULTIPLES DISPOSITIFS DE PRISE DE VUES BASÉ SUR UNE PROFONDEUR DE TRAMES MULTIPLES

Publication
EP 4101161 A1 20221214 (EN)

Application
EP 20945276 A 20201105

Priority
• US 202016947106 A 20200717
• KR 2020015395 W 20201105

Abstract (en)
[origin: US2022020128A1] A method includes capturing a plurality of first images using a first image sensor and a plurality of second images using a second image sensor. The method also includes generating a short single view, short depth map, long single view, and long depth map from the first and second images. The method further includes generating a multi-frame depth map using the short single view, short depth map, long single view, and long depth map. The method also includes generating a gain map using the multi-frame depth map and lighting conditions, where the lighting conditions introduce a relighting effect into the gain map. The method further includes generating a relit short single view and a relit long single view by applying the gain map to the short and long single views. In addition, the method includes generating a relit image by fusing the relit short and long single views.

IPC 8 full level
H04N 13/271 (2018.01); **H04N 13/243** (2018.01); **H04N 13/254** (2018.01); **H04N 23/76** (2023.01)

CPC (source: EP KR US)
G06T 5/50 (2013.01 - EP KR US); **G06T 5/70** (2024.01 - KR US); **G06T 5/90** (2024.01 - KR US); **G06T 5/94** (2024.01 - EP);
G06T 7/55 (2017.01 - EP KR US); **H04N 23/71** (2023.01 - EP KR); **H04N 23/73** (2023.01 - EP KR); **H04N 23/743** (2023.01 - EP KR);
H04N 23/76 (2023.01 - US); **G06T 2207/20221** (2013.01 - KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 11276154 B2 20220315; **US 2022020128 A1 20220120**; CN 116137953 A 20230519; EP 4101161 A1 20221214; EP 4101161 A4 20230802;
KR 20230041648 A 20230324; WO 2022014791 A1 20220120

DOCDB simple family (application)
US 202016947106 A 20200717; CN 202080104903 A 20201105; EP 20945276 A 20201105; KR 2020015395 W 20201105;
KR 20227036438 A 20201105